400 Seventh Street, S.W. Washington, D.C. 20590



Research and Special Programs Administration

## IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIAL CERTIFICATE NUMBER USA/0165/S, REVISION 5

This certifies that the sources described have demonstrated their ability meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency<sup>1</sup> and United States of America<sup>2</sup> for the transport of radioactive materials.

- 1. <u>Source Identification</u> Amersham Corporation Model Nos. A424-2 through A424-19 (excluding A424-6 through A424-9) and A453-1 through A453-10 (excluding A453-3 and A453-4).
- 2. <u>Source Description</u> The sources authorized by this certificate are single or double encapsulations constructed of Type 304 or 304L stainless steel in accordance with Technical Operations drawing no. 60060, sheets 2 and 3 (attached). The external diameter of the capsule is between 6.35 mm (0.25 inches) to 12.07 mm (0.48 inches) and the external length is between 19.81 mm (0.78 inches) and 33.32 mm (1.312 inches). Each capsule assembly is connected to a source wire and connector assembly for use in radiographic instruments.
- Radioactive Contents The sources described in this certificate contain not more than the following listed values of Cobalt 60 in solid metal form.

Model A424-2 A424-3 A424-4 A424-5 A424-10 A424-11 A424-12 A424-13 A424-14 A424-15 A424-16 A424-17 A424-18	Capsule Style 60011, 60001 60011, 60001 60011, 60000 60011, 60001 60011, 60004 60011, 60004 60012, 60002 60011, 60004 60011, 60004 60011, 60004 60011, 60000 60011, 60000	Activity (TBq/Ci)  0.81/22 0.81/22 2.04/55 0.22/6 0.22/6 2.04/55 4.07/110 12.22/330 4.07/110 0.41/11 2.04/55 2.04/55 1.22/33
· · · · ·	60011, 60000 60001, 60004	1.22/33

<sup>&</sup>lt;sup>1</sup> "Safety Series No. 6, Regulations for the Safe Transport of Radioactive Materials, 1985 Edition (as amended in 1990)", published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

 $<sup>^2</sup>$  Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

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<u>Model</u>	<u>Capsule Style</u>	Activity (Tbg/Ci)
A453-1	60011, 60000	4.07/110
A453-2	60012, 60002	6.11/165
A453-5	60012, 60002	20.37/550
A453-6	60013, 60003	40.74/1100
A453-7	60011, 60000	4.07/110
A453-8	60011, 60000	2.04/55
A453-9	60011, 60000	2.04/55
A453-10	60011, 60000	2.04/55

- 4. Quality Assurance Records of Quality Assurance activities required by paragraph 209 of the IAEA regulations shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
- 5. Expiration Date This certificate expires on January 1, 2006.

This certificate is issued in accordance with paragraph 703 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the December 22, 2000 petition by AEA Technology, Burlington, MA and in consideration of other information on file in this Office.

Certified by:

JAN 1 0 2001

Robert A. McGuire

(DATE)

Associate Administrator for Hazardous Materials Safety

Revision 5 - Issued to extend the expiration date.



